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CLAIMS:

 A method for molding a replica, comprising the steps of forming a mother mold from a transparent cured product of a photo-curable liquid silicone rubber composition, the mother mold having a cavity corresponding to the outer contour of an article to be duplicated,

filling the mold cavity with a photo-curable liquid resin, and

irradiating light to the photo-curable liquid resin from outside the mother mold, thereby curing the photo-curable liquid resin within the mother mold to produce a replica.

- A method for molding a replica, comprising the steps of
 (a) filling a container having at least one light
 - transmissive side surface with a photo-curable liquid silicone rubber composition, submerging a master model in the liquid silicone rubber composition, and irradiating
- light to the liquid silicone rubber composition to cure the composition to form a transparent silicone rubber part having the master model embedded therein,
 - (b) cutting the silicone rubber part into sections and removing the master model therefrom, the sections when mated constituting a silicone rubber mother mold having a cavity corresponding to the outer contour of the master model,
 - (c) mating the sections of the silicone rubber mother mold, filling the cavity with a photo-curable liquid resin, and irradiating light to the photo-curable liquid resin from outside the mother mold, thereby curing the photo-curable liquid resin within the mother mold to produce a replica,
 - (d) removing the replica from the silicone rubber mother mold.
- 35 3. The method of claim 2 wherein the master model is produced by an optical shaping process of irradiating light to a photo-curable liquid resin composition on the basis of CAD data regarding the shape and dimensions of the master

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model designed by three-dimensional CAD technique, thereby curing the resin composition.

- 4. The method of claim 1 wherein the irradiated light has a wavelength in the range of 200 to 500 nm.
 - 5. The method of claim 2 wherein the irradiated light has a wavelength in the range of 200 to 500 nm.
- 10 6. An apparatus for molding a replica comprising a mother mold having a cavity corresponding to the outer contour of an article to be duplicated, said mother mold being formed from a transparent cured product of a photo-curable composition,
- a means for casting or filling the mold cavity with a photo-curable liquid resin, and
 - a means for irradiating light to the photo-curable liquid resin from outside the mother mold thereby curing the photo-curable resin.
 - 7. The apparatus of claim 6 wherein said mother mold is formed from a transparent cured product of a photo-curable liquid silicone rubber composition.
- 25 8. The apparatus of claim 6 wherein said casting means includes a means for agitating and defoaming said photocurable liquid resin under a reduced pressure.
- 9. The apparatus of claim 6 wherein said light irradiating 30 means irradiates light having a wavelength in the range of 200 to 500 nm.